CLAIMS

1   1.   An electronic device comprising:

2   a reduced keypad, for entering character codes and intermediate codes into

3   an input buffer; and

4   an intermediate code processor, coupled to the input buffer, for changing

5   intermediate codes into character code sequences and recording the character code

6   sequences in a display buffer.

1   2.   An electronic device according to claim 1 wherein the intermediate codes

2   comprise a Ligature intermediate code.

1   3.   An electronic device according to claim 1 wherein the intermediate codes

2   comprise an Explicit Virama intermediate code.

1   4.   An electronic device according to claim 1 wherein the intermediate codes

2   comprise a Half-Character intermediate code.

1   5.   An electronic device according to claim 1 further comprising:

2   a display engine, coupled to the display buffer, for processing character

3   codes and character code sequences for display.

1   6.   An electronic device according to claim 5 further comprising:

2   a display screen, coupled to the display engine.

1   7.   An electronic device comprising:

2   a reduced keypad, for entering an intermediate code into an input buffer;

3   an intermediate code processor, coupled to the input buffer, for changing

4   the intermediate code into one or more character codes depending on any

5   preceding character code that precedes the intermediate code and for recording

6   the one or more character codes in a display buffer;

7   a display engine, coupled to the display buffer, for processing character

8   codes for display; and

9   a display screen, coupled to the display engine for displaying characters

10   built using the character codes in the display buffer.

1   8.   An electronic device according to claim 7 wherein the intermediate code

2   processor also changes the intermediate code into one or more character codes

3   depending on any following character code that follows the intermediate code.

1   9.   An electronic device according to claim 7 wherein the reduced keypad also

2   enters character codes into the input buffer.

1   10.   A method for character entry comprising the steps of:

2   entering a first character code into a memory buffer;

3   entering an intermediate code into the memory buffer;

4   entering a second character code into the memory buffer;

5   changing the intermediate code to one or more character codes; and

6   using a display engine to display one or more characters represented by the

7   first character code, the one or more character codes, and the second character

8   code.

1   11.   A method according to claim 10 wherein the step of entering an

2   intermediate code comprises the step of:

3   entering a Ligature intermediate code into the memory buffer.

1   12.   A method according to claim 11 wherein the step of changing the

2   intermediate code comprises the steps of:

3   converting the Ligature intermediate code into a Uncomposed Virama

4   character code sequence, if the first character code does not represent a consonant;

5   converting the Ligature intermediate code into a Ligature character code

6   sequence, if the first character code represents a consonant and the second

7   character code represents a consonant; and

8   converting the Ligature intermediate code into a Half-Character character

9   code sequence, if the first character code represents a consonant and the second

10   character code does not represent a consonant.

1   13.   A method according to claim 10 wherein the step of entering an

2   intermediate code comprises the step of:

3   entering an Explicit Virama intermediate code into the memory buffer.

1 14.   A method according to claim 13 wherein the step of changing the

2 intermediate code comprises the steps of:

3   converting the Explicit Virama intermediate code into an Uncomposed

4 Virama character code sequence, if the first character code does not represent a

5 consonant;

6   converting the Explicit Virama intermediate code into a Intermediate

7 Explicit Virama character code sequence, if the first character code represents a

8 consonant and the second character code represents a consonant; and

9   converting the Explicit Virama intermediate code into a Terminal Explicit

10 Virama character code sequence, if the first character code represents a consonant

11 and the second character code does not represent a consonant.

1 15.   A method according to claim 10 wherein the step of entering an

2 intermediate code comprises the step of:

3   entering a Half-Character intermediate code into the memory buffer.

1 16.   A method according to claim 15 wherein the step of changing the

2 intermediate code comprises the steps of:

3   converting the Half-Character intermediate code into an Uncomposed

4 Virama character code sequence, if the first character code does not represent a

5 consonant; and

6   converting the Half-Character intermediate code into a Half-Character

7 character code sequence, if the first character code does not represent a consonant.